

What the invention claimed is:

1. A resin coated carrier fabrication method comprising the steps of:

(a) applying a layer of bonding agent to a periphery of a continuously rotated material-transferring cylinder subject to a predetermined thickness through a metered material feeder, and at the same time extending a tape of carrier over an impression cylinder and continuously delivering said tape of carrier forwards and keeping a predetermined gap between said tape of carrier and the periphery of said material-transferring cylinder;

(b) adjusting the gap between said material-transferring cylinder and said carrier for enabling said bonding agent to be transferred from said material-transferring cylinder to said tape of carrier when the gap between said material-transferring cylinder and said carrier becomes smaller than the thickness of said layer of bonding agent at the periphery of said material-transferring cylinder and, for enabling a blank area to be left in said tape of carrier when the gap between said material-transferring cylinder and said carrier becomes greater than the thickness of said layer of bonding agent at the periphery of said material-transferring cylinder; and

(c) repeating step (b) so as to form said tape of carrier into a resin coated carrier having a layer of said bonding agent on one side thereof surrounded by a blank area.

2. The resin coated carrier fabrication method as claimed in claim 1, wherein said step (b) includes a sub-step of adjusting

the width of said layer of bonding agent at the periphery of said material-transferring cylinder before transferring said bonding agent from said material-transferring cylinder to said carrier.

3. The resin coated carrier fabrication method as claimed in claim 1, wherein said bonding agent is a resin.

4. A resin coated carrier fabrication apparatus comprising:

a frame;

a rack slidable reciprocally mounted on said frame;

a material-transferring cylinder rotatably mounted on said rack;

a metered material feeder adapted for applying a layer of bonding agent to a periphery of said material-transferring cylinder according to a predetermined thickness;

an impression cylinder rotatably mounted on said frame and adapted for supporting a tape of carrier; and

a driving mechanism adapted for reciprocating said rack on said frame to adjust a gap between said material-transferring cylinder and said impression cylinder.

5. The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said driving mechanism comprises a first air cylinder, a swivel arm and a second air cylinder all mounted on said frame, a reciprocating rod of said first air

cylinder being mounted on said rack to reciprocate it, said swivel arm being rotatably mounted to said frame and coupled between said rack and a reciprocating rod of said second air cylinder.

6. The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said metered material feeder comprises a container mounted on said frame and holding said bonding agent, an applicator mounted on said frame below said material-transferring cylinder, and a scraping wheel mounted on said rack besides said material-transferring cylinder, said applicator being partially dipped in said bonding agent and keeping a predetermined gap between said applicator and said material-transferring cylinder, said bonding agent being attached to a periphery of said applicator then applying to the periphery of said material-transferring cylinder when said applicator rotated, said scraping wheel being adapted for removing excessive amount of said bonding agent from the periphery of said material-transferring cylinder for enabling said bonding agent to be covered over the periphery of said material-transferring cylinder according to a predetermined thickness.

7. The resin coated carrier fabrication apparatus as claimed in claim 6, wherein the width of said applicator is smaller than the width of the tape of carrier to be supported on said impression cylinder.

8. The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a pair of scrapers respectively mounted on said frame and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on

the periphery of said applicator at two sides.

9. The resin coated carrier fabrication apparatus as claimed in claim 6, wherein the width of said material-transferring cylinder is smaller than the width of the tape of carrier to be supported on said impression cylinder.

10. The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a pair of scrapers respectively mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.

11. The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a flat scraper mounted on said frame and spaced from the periphery of said applicator at a pitch and adapted for removing excessive amount of said bonding agent from the periphery of said applicator for enabling said bonding agent to be covered on the periphery of said applicator subject to a predetermined thickness.

12. The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said metered material feeder comprising a container holding a bonding agent in which said material-transferring cylinder is peripherally partially dipped, a scraping wheel mounted on said rack besides said material-transferring cylinder and adapted for removing excessive amount of said bonding agent from the periphery of said material-transferring cylinder.

13. The resin coated carrier fabrication apparatus as claimed in claim 12, wherein the width of said material-transferring cylinder is smaller than the width of the tape of carrier to be supported on said impression cylinder.

14. The resin coated carrier fabrication apparatus as claimed in claim 12, further comprising a pair of scrapers mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.

15. The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said metered material feeder comprises a container holding a bonding agent, and a narrow elongated outlet extended in direction in parallel to the axis of said material-transferring cylinder and adapted for delivering said bonding agent from said container to the periphery of said material-transferring cylinder.

16. The resin coated carrier fabrication apparatus as claimed in claim 15, wherein the length of said outlet is smaller than the width of the tape of carrier to be supported on said impression cylinder.

17. The resin coated carrier fabrication apparatus as claimed in claim 15, further comprising a pair of scrapers mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.